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10/722,692	11/24/2003	Brian J. Ray	2717P098	8318
7590	10/03/2005		EXAMI	INER
Blakely, Sokoloff	f, Taylor & Zafman 1	NGUYEN, HUNG THANH		
Suite 101 5285 S.W. Meadow	on Dand		ART UNIT	PAPER NUMBER
Lake Oswego, OR			2841	TAPERNOVIBER

Please find below and/or attached an Office communication concerning this application or proceeding.

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OCT 1 2 2005

	Application No.	Applicant(s)	•			
	10/722,692	RAY ET AL.	AN			
Office Action Summary	Examiner	Art Unit	Gs.			
	HUNG T. NGUYEN	2841				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COM 36(a). In no event, however vill apply and will expire SIX cause the application to be	MUNICATION.  , may a reply be timely filed  (6) MONTHS from the mailing date of thi come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 N	ovember 2003.					
	action is non-final.					
3) Since this application is in condition for allowa	nce except for form	al matters, prosecution as to	the merits is			
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 1-52 is/are pending in the application	•					
4a) Of the above claim(s) is/are withdra	wn from considerat	on.				
5)⊠ Claim(s) <u>3-8,12,27-32 and 36</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,9-11,13-21,25,26,33-35,37-45 an</u>	<u>d 47-52</u> is/are rejec	ted.				
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirem	ent.				
Application Papers						
9)☐ The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the	drawing(s) be held in	abeyance. See 37 CFR 1.85(a	).			
Replacement drawing sheet(s) including the correct	tion is required if the	drawing(s) is objected to. See 3	7 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the a	ttached Office Action or form	ı PTO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 l	J.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documen						
2. Certified copies of the priority documen						
3. Copies of the certified copies of the price	ority documents hav	e been received in this Natio	nal Stage			
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a lis	* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)						
1) Notice of References Cited (PTO-892)		nterview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	F3 .	aper No(s)/Mail Date lotice of Informal Patent Application	(DTO 152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 11/24/03.		otice of informal Patent Application Other:	(1.10-102)			
r aper 110(3)/mail Date 11/2400.						

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-2, 9-11, 13-21, 25, 26, 33-35, 37-45, 47-52 are rejected under 35 U.S.C. 102(e) as being anticipated by Joist (US 6,916,190).

Regard claim 1, 25, 47: Joist discloses in figures 1a-1e an ejector comprising: an ejector handle (elements 6, 7, 8, 9, 10) capable of being rotationally coupled (see figure 1a-1e) with a blade (3), the ejector handle (elements 6, 7, 8, 9, 10) movable between a first position (see figure 1a, lock from rack 2) wherein the blade (3) is secured in a rack (2) and a second position (see figure 1e, remove from rack 2) wherein the ejector handle (elements 6, 7, 8, 9, 10) can be removed from the rack (2); a release mechanism (elements 10, 11, 17) coupled with the ejector handle (elements 6, 7, 8, 9, 10), the release mechanism (elements 10, 11, 17) to secure the ejector handle (elements 6, 7, 8, 9, 10) in the first position (see figure 1a, lock from rack 2) and, upon actuation, to allow movement of the ejector handle (elements 6, 7, 8, 9, 10) toward the second position (see figure 1e, remove from rack 2); and a lock mechanism (elements 10, 11, 12) disposed in the ejector handle (elements 6, 7, 8, 9, 10) and movable between a locked

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position (see figure 1a) and an unlocked position (see figure 1a), wherein the lock mechanism (elements 10, 11, 12), when in the locked position (see figure 1a), engages the release mechanism (elements 10, 11, 17) to prevent actuation of the release mechanism (elements 10, 11, 17).

Regard claim 2, 26: Joist discloses in figure 6a the ejector further comprising a base (31) capable of being attached to the blade (explain in claim 1), wherein the ejector handle (explain in claim 1) is rotationally coupled (explain in claim 1) with the base (see column 8, line 1-5).

Regard claim 9, 33: Joist discloses in figures 1a-5b the ejector wherein the ejector handle comprises: a body (29) rotationally coupled (see figure 5a) with the base (31) about an axis of rotation (see figure 1a-5b), the body (29) including a first lever arm (elements 6, 7, 8) extending from the axis of rotation (see figure 1a-5b) and a second lever arm (elements 6, 8) extending from the axis of rotation (see figure 1a-5b); a cavity (hole on body 29) formed in the body (29), the cavity (hole in body 29) able to receive (see 1a-5b) the release mechanism (explain in claim 1) and an engagement element (18) disposed on the second lever arm (elements 6, 8) the engagement element (elements 8, 18) to interface with a mating retaining element (18) disposed on the rack (2) while the ejector handle (explain in claim 1) is moved between the first (explain in claim 1) and second positions (explain in claim 1).

Regard claim 10, 34: Joist discloses in figures 1a-1b the ejector wherein the ejector handle (explain in claim 1) is movable between the first (explain in claim

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1) and second (explain in claim 1) positions by exerting a force (see figure 1a-1b) on the first lever arm (explain in claim 9).

Regard claim 11, 35: Joist discloses in figures 1a-1b the ejector wherein the first lever arm (explain in claim 9) has a length greater than a length (elements 6, 7, 8 is longer than elements 6, 8) of the second lever arm (explain in claim 9).

Regard claim 13, 37: Joist discloses in figure 1a-1b the ejector wherein the mating retaining element (18) forms part of a hook body (see figures 1a, 1b) that is attached to the rack (2).

Regard claim 14, 38: Joist discloses in figures 1a-1b the ejector wherein the engagement element (elements 8, 18) interacts with the mating retaining element (18) to secure (see figures 1a-1b) the blade (explain in claim 1) in the rack (2) when the ejector handle (explain in claim 1) is at the first position (explain in claim 1).

Regard claim 15, 39: Joist discloses in figure 1a-1b the ejector wherein the engagement element (explain in claim 9) interacts with the mating retaining element (explain in claim 9) to exert an extraction force (see figure 1a-1b) on the blade (explain in figure claim 1) when the ejector handle (explain in claim 1) is moved from the first position (explain in claim 1) to the second position (explain in claim 1).

Regard claim 16, 40: Joist discloses in figure 1a-1b ejector wherein the engagement element (explain in claim 9) interacts with the mating retaining element (explain in claim 9) to exert an insertion force (see figures 1a-1b) on the blade (explain in claim 1) when the ejector handle (explain in claim 1) is moved

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from the second position (explain in claim 1) to the first position (explain in claim 1).

Regard claim 17, 41: Joist discloses in figures 1a-1b the ejector wherein the release mechanism (explain in claim 1) is further able to secure (see figure 1a-1b) the ejector handle (explain in claim 1) in the second position (explain in claim 1).

Regard claim 18, 42: Joist discloses in figures 1a-1b the ejector wherein the release mechanism comprises: a body (explain in claim 9) rotationally coupled (explain in claim 9) with the ejector handle (explain in claim 1) about an axis of rotation (explain in claim 9), the body (explain in claim 9) including a first lever arm (explain in claim 9) extending from the axis of rotation (explain in claim 9) and a second lever arm (explain in claim 9) extending from the axis of rotation (explain in claim 9), the body (explain in claim 9) movable between an initial position (see figure 1a-1b) and a depressed position (see figure 1a-1b); and a catch element (10) disposed on the second lever arm (explain in claim 1), the catch element (10) for engaging a corresponding notch (16) on the base (explain in claim 1) when the body (explain in claim 9) is at the initial position, the interaction between the catch element (12) and the notch (16) preventing movement of the ejector handle (explain in claim 1), wherein the release mechanism (explain in claim 1) is actuated by applying a force (see figure 1a-1b) to the first lever arm (explain in claim 1) to move the body (explain in claim 9) from the initial position (see figure 1a-1b) to the depressed position (see figure

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1a-1b), the catch element (12) disengaging the notch (16) when the body (explain in claim 9) is at the depressed position (see figure 1a-1b).

Regard claim 19, 43: Joist discloses in figures 1a-1b the ejector wherein the catch element (explain in claim 18) engages a secondary notch (17) on the base when the body (explain in claim 9) is moved to the depressed position, the interaction between the catch element (10) and the secondary notch (17) holding the body (explain in claim 9) at the depressed position (see figure 1a-1b).

Regard claim 20, 44: Joist discloses in figures 1a-1b the ejector further comprising a hook (see figure 1a-1b for the hook disposed on element 18), the hook (see figure 1a-1b for the hook disposed on element 18) attachable to the rack (2), the hook (see figure 1a-1b for the hook disposed on element 18) including a retaining element (explain in claim in claim 9) for interacting with a mating engagement element (explain in claim 9) on the ejector handle (explain in claim 1) to secure the blade (explain in claim 1) in the rack (2) when the ejector handle (explain in claim 1) is at the first position (explain in claim 1).

Regard claim 21, 45: Joist discloses in figure 1a-1b the ejector wherein the engagement element (explain in claim 9) interacts with the mating retaining element (explain in claim 9) to exert an extraction force (see figure 1a-1b) on the blade (explain in claim 1) when the ejector handle (explain in claim 1) is moved from the first position (explain in claim 1) to the second position (explain in claim 1), and wherein the engagement element (explain in claim 9) interacts with the mating retaining element (explain in claim 9) to exert an insertion force (see figure 1a-1b) on the blade (explain in claim 1) when the ejector handle (explain in

claim 1) is moved from the second position (explain in claim 1) to the first position (explain in claim 1).

Regard claim 48: Joist discloses in figures 1a-2e the ejector further comprising means for biasing the releasing means toward a position in which the releasing means maintains the ejecting means in the first position (see figures 1a-2e for details).

Regard claim 49: Joist discloses in figures 1a-2e the ejector wherein the releasing means is further able to secure the ejecting means in the second position (see figures 1a-2e for details).

Regard claim 50: Joist discloses in figures 1a-2e the ejector further comprising means for providing a visual indication of a status of the locking means (see figures 1a-2e for details).

Regard claim 51: Joist discloses in figures 1a-2e the ejector further comprising means for providing tactile (see figures 1a-2e for details).

feedback to a user indicative of a position of the locking means.

Regard claim 52: Joist discloses in figures 1a-2e the ejector wherein the ejecting means including means for providing a mechanical advantage (see figures 1a-2e for details).

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to

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be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 22-24, 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Joist (US 6,916,190) in view of Tollbom (US 5,793,614).

Regard claim 22, 46: Joist discloses all the elements of the ejector as described above with respect to claim 1 except, Joist does not disclose the ejector further comprising a compression spring disposed between the release mechanism and the ejector handle, the compression spring to bias the release mechanism toward a position in which the release mechanism maintains the ejector handle in the first position.

Tollbom discloses a compression spring disposed between the release mechanism and the ejector handle, the compression spring to bias the release mechanism toward a position in which the release mechanism maintains the ejector handle in the first position.

Joist and Tollbom are analogous art because they are from the same field of endeavor to make ejectors.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art, to make spring of Joist to bias the release mechanism as taught by Tollbom.

Therefore, it would have been obvious for one ordinary skill in the art to combine Joist with Tollbom for the benefit of easier to release handle.

Regard claim 23: Joist discloses all the elements of the ejector as described above with respect to claim 1 except, Joist does not disclose the ejector wherein

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the base, ejector handle, release mechanism, and lock mechanism are each

forms from a molded plastic.

Joist does not disclose ejector wherein the base, ejector handle, release

mechanism, and lock mechanism are each forms from a molded plastic.

However it is old and well known for one ordinary skill in the art to make ejector

wherein the base, ejector handle, release mechanism, and lock mechanism by

molded plastic.

Therefore, it would have been obvious for one ordinary skill in the art to make

ejector wherein the base, ejector handle, release mechanism, and lock

mechanism by molded plastic for the benefit of cost, insulation and easy to

handle.

Regard claim 24: Joist discloses all the elements of the ejector as described

above with respect to claim 1 except, Joist does not disclose the ejector wherein

the base, ejector handle, release mechanism, and lock mechanism are

assembled together using a snap-fit process.

However, it is old and well known for one ordinary skill in the art to make the

ejector wherein the base, ejector handle, release mechanism, and lock

mechanism are assembled together using a snap-fit process.

Therefore, it would have been obvious for one ordinary skill in the art to make the

ejector wherein the base, ejector handle, release mechanism, and lock

mechanism by a snap-fit process for the benefit of convenience to assembly.

Allowable Subject Matter

Claim 3-8, 12, 27-32, 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Regard claim 3, 27: Joist discloses in figures 3-9 The ejector of claim 1, wherein the lock mechanism comprises: a cylindrical body disposed within a cylindrical hole in the ejector handle (explain in claim 1), the cylindrical body rotable between the locked (explain in claim 1) and unlocked positions (explain in claim 1); and a slot disposed proximate an end of the cylindrical body and oriented parallel to an axis of the cylindrical body, the slot sized and oriented to receive a key disposed on the lock mechanism, wherein the slot can receive the key upon actuation of the release mechanism (explain in claim 1).

There would no motivation to make this modification as Joist teaches a cylindrical body disposed within a cylindrical hole in the ejector handle, the cylindrical body rotable between the locked and unlocked positions; and a slot disposed proximate an end of the cylindrical body and oriented parallel to an axis of the cylindrical body, the slot sized and oriented to receive a key disposed on the lock mechanism, wherein the slot can receive the key upon actuation of the release mechanism.

Regard claim 12, 36: Joist discloses in figures 1c-1d the ejector wherein the first lever arm (explain in claim 9) and the second lever arm (explain in claim 9) are separated by an angle of approximately ninety degrees.

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There would no motivation to make this modification as Joist teaches the first lever arm and the second lever arm are separated by an angle of approximately

ninety degrees.

**Relevant Art** 

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takahashi (5,140501) teaches the Mechanism for inserting and withdrawing printed board, Petitpierre et al. (US 6,172,880) teaches Faceplate for an electronic circuit, Kurrer et al. (US 6,128,198) teaches Front system for a printed circuit board assembly having active passive switching, Joist (US 5,504,656) Device for removing a plug-in module, Vermette

(US 6,148,506)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG T. NGUYEN whose telephone number is 571-272-5983. The examiner can normally be reached on 8:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, KAMMIE CUNEO can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is

703-872-9306.

HN

Hung Thanh Nguyen

September 23, 2005

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Substitute	Substitute for form 1449A/PTO			Complete if Known		
		<b>.</b>	CUDE	Application Number		
INFORMATION DISCLOSURE				Filing Date	November 24, 2003	
STATEMENT BY APPLICANT			CANT	First Named Inventor	Brian J. Ray	
•	(use as many sheets as necessary)			Art Unit		
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Sheet	1	of	2	Attorney Docket Number	2717P098	

	U.S. PATENT DOCUMENTS							
	Cite No.'	Document Number  Number - Kind Code <sup>a</sup> (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Palentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
44	1	US-Des. 261,354	10-20-1981	Clemens				
40	2	US-3,952,232	04-20-1976	Coules				
CILL	3	US-4,345,809	08-24-1982	Sugden				
112/	4	US-4,603,375	07-29-1986	Miller et al.				
WN:	5	US-5,708,742	01-13-1998	Beun et al.				
470	6	US-5,978,233	11-02-1999	Roscoe et al.				
HN	7	US-6,095,851	08-01-2000	Laity et al.				
47	8	US-6,190,188 B1	02-20-2001	Koradia et al.				
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HN.	17	US-6,597,584 B1	07-22-2003	Ray et al.				
HM	18	US-2003/0039100 A1	02-27-2003	Salinas				
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	FOREIGN PATENT DOCUMENTS				
Examiner	Cite	Foreign Patent Document	D A II - 11 - 2 - 2 - 1		Pages, Columns, Lines,
	No.¹	Country Code' - Number' - Kind Code(if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003.

Substitute for form 1449A/PTO				Complete if Known		
	•			Application Number		
INFORMATION DISCLOSURE			<b>DUKE</b>	Filing Date	November 24, 2003	
STAT	STATEMENT BY APPLICANT			First Named Inventor	Brian J. Ray	
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Sheet	2	of	2	Attorney Docket Number	2717P098	

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
47)	19	"cPCI Ejector Handle Specification," Purcell Bracket, Inc., available at: <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				

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## Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination RAY ET AL. | Examiner | Art Unit | Page 1 of 1

#### **U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-5,140,501	08-1992	Takahashi et al.	361/798
	В	US-6,148,506	11-2000	Vermette, Louis Raymond	29/758
	С	US-6,915,562	07-2005	Joist et al.	29/758
	D	US-5,504,656	04-1996	Joist, Michael	361/754
	E	US-5,629,836	05-1997	Wright, Andrew C. W.	361/755
	F	US-5,793,614	08-1998	Tollbom, Bruce C.	361/732
	G	US-6,172,880	01-2001	Petitpierre et al.	361/801
	Н	US-6,128,198	10-2000	Kurrer et al.	361/759
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